

GDS-58NXP Sample Draw Monitor

Dual Channel Sample Draw System with Enhanced Communication and High Visibility Color LCD Display

- * Designed for use in Class 1 Div 1 hazardous locations
- * Dual channels support sensors for both toxic and combustible gas
- * High quality diaphragm pump with 24VDC brushless motor
- * Wiring junction box simplifies field wiring and maintenance
- * High visibility color display flashes yellow or red on alarm
- * Setup in hazardous area requires only simple magnetic wand
- * Integrated flow warning switch for ultra-reliable remote operation
- * Built-in flow meter provides visual confirmation of sample flow rate
- * Standard RJ-45 Ethernet interface with built-in web server
- * Prompted calibration procedure and cal port for easy maintenance
- * Sample lines up to 500 ft in length with latency less than 4 minutes
- * Standard 4x alarm relays and dual serial MODBUS interface
- * GASMAX CX auto-configuration with DigitalSensor technology
- * Optional external 110/220VAC power supply available
- * Manufactured in USA



Remote Sampling Made Easy

The GDS-58NXP sample draw system is designed to accurately measure gas levels in areas with limited accessibility or in situations where the installation of a standard diffusion sensor is difficult or impossible. The GDS-58NXP sample draw system features the new GASMAX CX gas monitor with DigitalSensor technology and advanced Ethernet / MODBUS communications. Together with a fully integrated long-life brushless sample pump, adjustable flow meter and visual low flow warning indication, the highly reliable GDS-58NXP can monitor locations from up to 500 feet.

GASMAX CX Gas Monitor

The GDS-58NXP sample draw system incorporates a GASMAX CX dual-channel gas monitor with full-color graphic display. Extraordinarily visible under all conditions, the display shows gas values, programmable tag names and engineering units. Unlike previous generation detectors with point LEDs, the GASMAX CX signals alarms by flashing the entire screen, making alarm indications clearly visible to operators and technicians.

The GASMAX CX supports new DigitalSensor technology for toxic and combustible gases as well as volatile organics and inert gases such as CO₂. A menu-driven operator interface eliminates analog potentiometers and allows setup and calibration without hazardous area declassification. An integrated Run/Cal valve and user prompted calibration procedure make routine maintenance and field 'bump tests' quick and easy.

The GASMAX CX incorporates an industry standard RJ-45 Ethernet interface with integrated web server that allows users to monitor the system across any standard Ethernet network.

Reliability in Hostile Environments

The GDS-58NXP is designed for installation and use in hazardous areas rated Class I, Div 1. Temperature-compensated sensors and industrial-quality components ensure reliable operation and rapid response down to 0°C.

The GDS-58NXP is ideal for sampling toxic and combustible gases in:

- *Sumps and enclosed areas*
- *Cabinets or storeroom with limited ventilation or airflow*
- *Air conditioning intake or exhaust plenums and ducts*
- *Boiler burners and ducting*

GDS
Corp

Gas and Flame Detection

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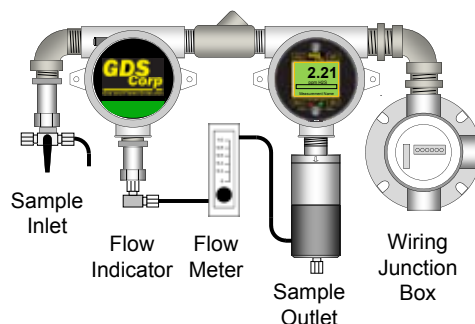
GDS-58NXP SPECIFICATIONS	
Power Input	24VDC +/- 5% at < 12 watts.
Display	High visibility color LCD displays engineering units, alarm levels and trend data
Sensor Channel One	Supports DigitalSensor toxic sensors and bridge-type sensors such as Catalytic Bead or SmartIR infrared sensors
Sensor Channel Two	Supports DigitalSensor toxic sensors and 4-20mA input devices such as the GDS-IR Infrared Sensor
Standard Output	Single or dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply. 10/100 Ethernet with MODBUS/TCP and web server that allows remote view / modification of gas detector values and settings ⁵ Bright LED red / green flow status indicator panel. Shows GREEN if flow OK, RED if flow blocked. Four standard form C Relays rated 5A @ 30VDC / 240VAC Dual RS-485 2-wire MODBUS® interface Wiring junction box with power-on indicator and easy-connect wiring terminals. Two 3/4" NPT female connections
Sample Pump	1.6LPM diaphragm pump with brushless 24VDC motor NOTE: Pump may not start at temperatures below 0°C Integral flow switch generates FAULT output on 4-20mA if flow blocked or pump fails
Temp	0°C to +55°C operating
Housing	Aluminum housing with epoxy paint #316 stainless optional
Dimensions	16" x 12" x 5" for sensor types 10 - 70, 10 pounds 16" x 15" x 5" for sensor types 110+, 14 pounds Stainless steel plate, 21" x 21", 22 pounds 24" x 24" nonmetallic enclosure, 40 pounds
Inlet / Outlet	1/4" compression, stainless steel
Approvals	GASMAX CX CSA Certified for Class I, Div 1, Grps B, C, D. Enclosure rated Class II, Div 2 Grps E, F, G. Suitable for XP installations ²
Warranty	2 years from date of purchase on electronics

SENSOR TYPES ¹					
10	Oxygen (0-25%)	0°C to +55°C	29	Nitrogen Dioxide	0°C to +50°C
11	Carbon Monoxide	0°C to +50°C	30	Mercaptan TBM	0°C to +40°C
14	Hydrogen	0°C to +50°C	31	Tetrahydrothiophene (THT)	0°C to +40°C
15	Hydrogen Sulfide	0°C to +50°C	32	Diborane	0°C to +40°C
19	Sulfur Dioxide	0°C to +50°C	33	Hydrogen Sulfide (low RH)	0°C to +50°C
22	Ethylene Oxide	0°C to +50°C	5x	SmartIR Infrared CH4 / CO2	0°C to +55°C
23	Arsine	0°C to +40°C	6x	PID for complex organics	0°C to +55°C
24	Silane	0°C to +40°C	7x	Catalytic bead for combustibles	0°C to +55°C
27	Hydrazine	0°C to +40°C	1xx	GDS-IR family, 0-100% LEL	0°C to +55°C
28	Nitric Oxide	0°C to +50°C			



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GDS-58NXP Order Guide	
GDS-58NXP2 X / A-B-C / D-E-F / G [SS][TAG] [HTR]	
"X"	0 = None 1 = Non-metallic particulate filter 2 = Stainless steel coalescing filter 3 = Pyrex clear coalescing filter
"A"	CH 1 SENSOR HEAD 0 = None 37 = Sensor Head with Flow Cell
"B"	CH 1 SENSOR TYPE (see chart) See GDS Corp Product Configurator for allowable sensor types
"C"	CH 1 DETECTION RANGE ² 1 = 0 - 1 5 = 0 - 50 2 = 0 - 5 6 = 0 - 100 3 = 0 - 10 7 = 0 - 500 4 = 0 - 25 8 = 0 - 1000 Custom RXXXX (0000-9999)
"D"	CH 2 SENSOR HEAD 0 = None 37 = Sensor Head w/ Flow Cell 45 = GDS-IR w/ Flow Cell
"E"	CH 2 SENSOR TYPE (see chart) See GDS Corp Product Configurator for allowable sensor types
"F"	CH 2 DETECTION RANGE ² (See "C")
"G"	MOUNTING PLATE/ENCLOSURE 0 = None 1 = 21" x 21" stainless steel plate 2 = 24" x 24" non-metallic enclosure ⁴ 3 = 24" x 24" stainless steel enclosure
[SS] = Stainless steel instrument enclosures [TAG] = Stainless steel tag [HTR] = Enclosure heater (Requires "E" = 2) ⁴	



NOTES
Note 1: Reactive gases not supported on GDS-58NXP ₂ use GDS-58GP for chlorine and similar gases
Note 2: Not all sensors are available in all ranges. Contact GDS Corp for specific applications
Note 3: Single or dual analog output and Ethernet output available in any configuration.
Note 4: AC-powered enclosure heater is available as an option with 24" x 24" non-metallic enclosure and is recommended in outdoor applications in cold climates. Contact factory for more information.
Note 5: Web server requires password to change settings